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M3 - [01] H4 H401 H402 H403 H481 H482 H483 H8 K0 L4 L432 L640 L699 M280
M311 M312 M321 M322 M323 M332 M342 M383 M391 M392 M393 M416 M424 M620
M740 M782 M903 M904 Q332; 9909-IWN01-K 9909-IWN01-M
- [02] C106 C810 M411 M424 M740 M782 M903 M904 M910 Q332; R05085-K
R05085-M; 1669-U
PA - (CANO) CANON KK
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PR - JP19970156074 19970530
XA - C1999-030392
XIC - B41J-002/01 ; B41M-005/00 ; C09D-011/00
XP - N1999-074085
AB - JP10330665 A watery pigment ink comprises a) a self-dispersing carbon black, to the surface of which at least one hydrophilic gp. is bound directly or indirectly through another atomic gp., (A); and b) a wetting agent of formula $R_1R_2NCONHCH_2CH_2OH$, where $R_1, R_2 = H$, or $C_nH_{2n}OH$ and $n = 2, 3$ (R_1 and R_2 are not H at the same time) Also claimed are:- (i) an ink jet recording method; and (ii) an apparatus for ink jet recording.
- PREFERRED COMPOSITION The hydrophilic gp. is at least one of Formula (1)
- Formula (1)-p
- ($M = H$, alkali metal, ammonium, organic ammonium, $R = 1-12C$ alkyl or phenyl or naphthyl which may have a substituent, preferably a basic gp.). (A) is $1-12C$ alkyl or phenyl or naphthyl gp. which may have a substituent, preferably a basic gp. The wetting agent is contained in an amount of 1-30 wt.%, more preferably 1-10 wt.% based on the ink. The ink further comprises a surfactant.
- USE - The ink is used in ink jet recording means.
- ADVANTAGE - The ink has excellent long term storage stability, stability for intermittent ejection and prevention of nozzle plugging and also gives a stable printed image having high concentration, light fastness and water resistance.
- (Dwg.0/7)
CN - 9909-IWN01-K 9909-IWN01-M R05085-K R05085-M
DRL - 1669-U
IW - WATER PIGMENT INK INK JET RECORD APPARATUS INK STABILISED HIGH CONCENTRATE LIGHT FAST WATER RESISTANCE IMAGE
IKW - WATER PIGMENT INK INK JET RECORD APPARATUS INK STABILISED HIGH CONCENTRATE LIGHT FAST WATER RESISTANCE IMAGE
NC - 001
OPD - 1997-05-30
ORD - 1998-12-15
PAW - (CANO) CANON KK

TI - Watery pigment ink, and ink jet recording and apparatus using the ink
- is stable and gives a high concentration, light fast and water
resistant image